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ABSTRACT

Provided is a composition useful for obtaining a high gloss coating, for example, a high gloss paint. The composition includes an isocyanate which is at least partially masked by one or more masking agent, and having a degree of liberation with respect to the masking agent at 120°C of 5% or less. A polyol has a glass transition temperature of about 40°C or more, a hydroxyl number of about 20 mg KOH/g or more and an average molecular weight Mn of about 500 g/mol or more. Also provided is a process for preparing the composition, wherein the isocyanate, the polyol and any other components are preblended in a blender. The polyol and other meltable components of the blend are melted, homogenized and dispersed in an extruder having one or more screws. Further provided are paint compositions, wherein the paint is a high gloss paint. The compositions are environmentally friendly and result in high gloss coatings having beneficial mechanical properties.

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